ductility 1.5 (4.89 inches displacement) the testing was terminated because bending was noted around the weak axis of the sole plate. It was observed that the weakest link for this connection was the sole plate that is located at the top of the bearing pad. The force produced by the bending of the sole plates caused a gap between the embedded plate and the girder because of the pulling action. However, the force experienced during this test was not enough to pull out the embedded plate from the girder. Figure 68 shows the gap produced between the embedded plate and the girder as well as the gap between the bearing pads and sole plate. Figure 69 shows that there are four anchor studs embedded seven inches into the girder, which prevent the embedded plate from pulling out when the bond force is not exceed. The bending of sole plates caused crushing of the concrete around the diaphragm area (Figure 70 a- b).

Figure 68. Pullout of embedded plate in girder